

Centrin-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P75352
Synonyms:	Centrin-2; Caltractin isoform 1; CETN2; CALT; CEN2
Species:	Human
Source:	HEK293
Accession:	P41208 (M1-Y172)
Gene ID:	1069
Molecular Weight:	Approximately 21.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Centrin-2 Protein assumes a fundamental role in the structure and function of the microtubule organizing center, particularly in centriole duplication and the proper formation of spindles during cell division. Beyond its central role in these processes, Centrin-2 contributes to the regulation of cytokinesis and maintenance of genome stability through collaborative interactions with CALM1 and CCP110. Additionally, it is intricately involved in global genome nucleotide excision repair (GG-NER) by acting as a crucial component of the XPC complex. In partnership with RAD23B, Centrin-2 appears to stabilize XPC, and in vitro, it stimulates the DNA binding of the XPC:RAD23B dimer, highlighting its multifaceted involvement in cellular mechanisms essential for genomic integrity and cell division.
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Caution: Product has not been fully validated for medical applications. For research use only.

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